

# PATENT ABSTRACTS OF JAPAN

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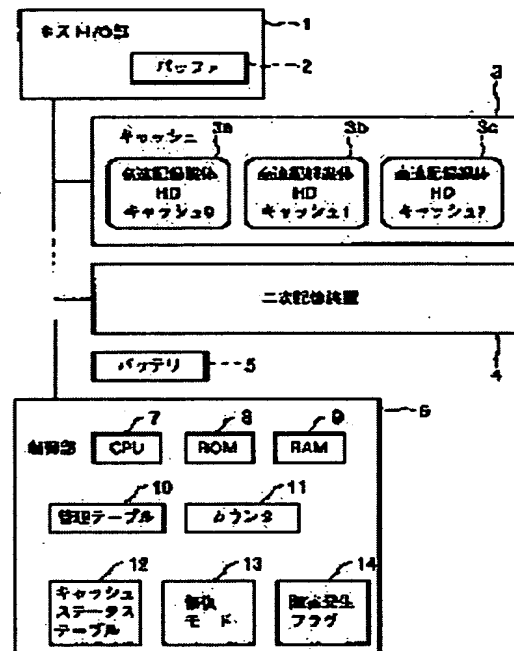
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## (54) INFORMATION STORAGE DEVICE

### (57)Abstract:

**PURPOSE:** To provide the information storage device which makes a fault recovery while maintaining the effects of caching by enabling the effective utilization of an area on a small-capacity, high-speed storage medium by duplexing the caching only for dirty data and not duplexing the caching only for clean data.

**CONSTITUTION:** The storage device uses two high-speed small-capacity storage media 3a and 3b of the same size as caches for a low-speed, large-capacity storage medium 4, has a management table wherein the block addresses wherein duplex data present in both the caches are stored are made to correspond to each other, and includes both duplex blocks and normal (single) blocks together; when a clean block needs to be written, the block is written in both the caches (data are duplexed), the state of the block is set to a dirty state, and when the block is copied from a large-capacity storage medium 4 to the normal block in one cache, the block state is set to a clean state.



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